

a liquid discharge control unit for discharging a predetermined amount of the chemical solution from the dissolution unit, wherein one of the gas discharge control unit and the liquid discharge control unit is operated at substantially the same time as the dissolution unit.

Sub 317
14. (Amended) The preparation apparatus according to claim 13, wherein the dissolution unit includes a preparation tank for receiving the liquid from the liquid supply line and a gas supply unit for forming bubbles of the chemical gas in the preparation tank to dissolve the chemical gas in the liquid.

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Sub 317
15. (Amended) The preparation apparatus according to claim 13, a flow controller arranged in the gas supply line.

16. (Amended) The preparation apparatus according to claim 14, further comprising a cooling unit for cooling the liquid in the preparation tank.

Sub 337
Q2
24. (Amended) The preparation apparatus according to claim 23, wherein the concentration measuring device includes at least one of a viscosity meter, a specific gravity meter, an ultrasonic wave velocity meter, and a specific conductance meter, and wherein the concentration of the chemical solution from the measured result of the concentration measuring device and controlling the amount of the chemical gas supplied to the dissolution unit from the gas supply line in accordance with the calculated concentration.

26. (Amended) The preparation apparatus according to claim 24, wherein the gas supply line includes a container in which the chemical gas is contained, and wherein the concentration measuring device calculates the amount of the used chemical gas by measuring the change in the weight of the container and calculates the concentration of the chemical solution from the amount of the used chemical gas.

29. (Amended) A chemical solution preparation apparatus comprising:
a gas supply line for supplying a chemical gas;
a liquid supply line for supplying a liquid;
a dissolution unit for dissolving the chemical gas in the liquid to prepare a chemical solution and cooling the chemical solution during the preparation; and
a gas discharge control unit for discharging an adjusted amount of the chemical gas that was not dissolved in the liquid by the dissolution unit.

34. (Amended) The preparation apparatus according to claim 29, further comprising a flow controller arranged in the gas supply line.